(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



## 

(43) International Publication Date 15 January 2004 (15.01.2004)

(10) International Publication Number WO 2004/005227 A1

(51) International Patent Classification7: A23L 1/236, A23G 3/00

C07C 31/18,

(21) International Application Number:

PCT/FI2003/000533

(22) International Filing Date:

2 July 2003 (02.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20021312

3 July 2002 (03.07.2002) FI

(71) Applicant (for all designated States except US): DANISCO SWEETENERS OY [FI/FI]; Keilaranta 9, FIN-02151 Espoo (FI).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): EROMA, Olli-Pekka [FI/FI]; Merikatu 8, FIN-48100 Kotka (FI). NYGREN, Johanna [FI/FI]; Eloniemenkatu 3 C, FIN-08150 Lohja (FI). HEIKKILÄ, Heikki [FI/FI]; Ristiniementie 32 G 33, FIN-02320 Espoo (FI). SØRENSEN, Per, Bo [DK/DK]; Vejrøgade 13, DK-2100 København Ø (DK). SARKKI, Marja-Leena [FI/FI]; Rajakalliontie 13, FIN-02460 Kantvik (FI). FAIRS, Ian [GB/GB]; 17 Clouston Close, Wallington, Surrey SM6 8LX (GB). GROS, Håkan [FI/FI]; Rajakalliontie 14, FIN-02460 Kantvik (FI).
- (74) Agent: BORENIUS & CO OY AB; Tallberginkatu 2 A, FIN-00180 Helsiki (FI).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO utility model (GH), ARIPO patent (GH), ARIPO utility model (GM), ARIPO patent (GM), ARIPO utility model (KE), ARIPO patent (KE), ARIPO utility model (LS), ARIPO patent (LS), ARIPO utility model (MW), ARIPO patent (MW), ARIPO utility model (MZ), ARIPO patent (MZ), ARIPO utility model (SD), ARIPO patent (SD), ARIPO utility model (SL), ARIPO patent (SL), ARIPO utility model (SZ), ARIPO patent (SZ), ARIPO utility model (TZ), ARIPO patent (TZ), ARIPO utility model (UG), ARIPO patent (UG), ARIPO utility model (ZM), ARIPO patent (ZM), ARIPO utility model (ZW), ARIPO patent (ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CRYSTALLIZATION OF POLYOL COMPOSITIONS, CRYSTALLINE POLYOL COMPOSITION PRODUCT AND USE THEREOF

(57) Abstract: The present invention relates to a microcrystallized polyol comprising at least two polyols, wherein said polyols are selected from the group consisting of maltitol, xylitol and lactitol and wherein said composition contains at least 25 % by weight of each of at least two of said polyols microcrystallized together into a solid microcrystalline product. The present invention also relates to a process for the microcrystallization of polyols into a polyol composition. The microcrystallized polyol composition can be used in confectionery, foodstuffs, oral hygiene products and pharmaceuticals and in dietetic products.